

OnSite[™] Model 3088A Series **G.SHDSL.bis CPE with Fixed Serial Interfaces**

Quick Start Guide



Important — This is a Class A device and is intended for use in a light industrial environment. It is not intended nor approved for use in an industrial or residential environment.

REGULATORY MODEL NUMBER: 03340D4-001



- Do not open the device when the power cord is connected. For systems without a power switch and without an external power adapter, line voltages are present within the device when the power cord is connected.
- For devices with an external power adapter, the power adapter shall be a listed *Limited Power Source*. The mains outlet that is utilized to power the device shall be within 10 feet (3 meters) of the device, shall be easily accessible, and protected by a circuit breaker in compliance with local regulatory requirements.
- For AC powered devices, ensure that the power cable used meets all applicable standards for the country in which it is to be installed.
- For AC powered devices which have 3 conductor power plugs (L1, L2 & GND or Hot, Neutral & Safety/Protective Ground), the wall outlet (or socket) must have an earth ground.
- For DC powered devices, ensure that the interconnecting cables are rated for proper voltage, current, anticipated temperature, flammability, and mechanical serviceability.
- WAN, LAN & PSTN ports (connections) may have hazardous voltages present regardless of whether the device is powered ON or OFF. PSTN relates to interfaces such as telephone lines, FXS, FXO, DSL, xDSL, T1, E1, ISDN, Voice, etc. These are known as "hazardous network voltages" and to avoid electric shock use caution when working near these ports. When disconnecting cables for these ports, detach the far end connection first.
- Do not work on the device or connect or disconnect cables during periods of lightning activity.



This device is NOT intended nor approved for connection to the PSTN. It is intended only for connection to customer premise equipment.



In accordance with the requirements of council directive 2002/96/EC on Waste of Electrical and Electronic Equipment (WEEE), ensure that at end-of-life you separate this product from other waste and scrap and deliver to the WEEE collection system in your country for recycling.

1.0 Select configuration method

Before powering up, you must select one of the following methods for configuring your OnSite:

- **Plug 'n' Play**—The OnSite comes factory-configured for Plug 'n' Play configuration when connected to a service-provider network.
- **DIP Switch**—For deploying the OnSite in back-to-back applications. To use DIP-switch configuration you must first set the DIP switches to a position other than all OFF or all ON before powering-up the OnSite. To configure your CPE using the DIP switches, refer to the section entitled “Hardware (DIP-switch) configuration” in the *OnSite Model 3088A Series Getting Started Guide*.
- **Software Configuration**—Allows you to modify configurable parameters by connecting a PC to the console port and issuing software commands. To use software configuration you must set all the DIP switches to the ON position before powering-up the OnSite. To configure your CPE via the console port, refer to section “Software (CLI) configuration” in the *OnSite Model 3088A Series Getting Started Guide*.

2.0 Power up the CPE

Your G.SHDSL.bis CPE comes with one of the following power supply options:

- External AC adaptor with detachable power cord
- External DC power supply with terminal block connector (model 48V-PSM3)

2.1 Models with external AC adaptor

1. Connect female plug of the AC power cord to the AC adaptor provided.
2. Connect the barrel-type connector of the AC adaptor to the *Power* connector on the OnSite.
3. Insert the male plug of the AC power cord into an AC power outlet (100–240 VAC).

2.2 Models with external DC power supply

The 36-60 VDC DC to DC adapter is supplied with the DC version of the Model 3088A. The black and red leads plug into a DC source (nominal 48VDC) and the barrel power connector plugs into the barrel power supply jack on the 3088A. (See [figure 1](#)).



Figure 1. DC Power Supply

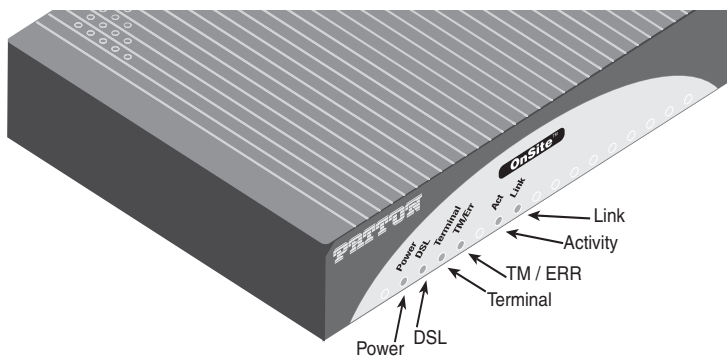


Figure 2. Model 3088A/CA front panel

2.3 Power up indication

Verify that the *Power* LED (see **figure 2**) illuminates and remains lit.

3.0 Connect the G.SHDSL port

1. Obtain single-twisted-pair cable with an RJ-45 plug connector at each end.
2. Plug one end of the cable into the RJ-45 socket (labelled *DSL*) on the OnSite CPE.
 - **If you are connecting to a DSL service**, plug the other end of the cable into the RJ-45 wall socket that provides your G.SHDSL service.
 - **If connecting to another OnSite**, verify the other end of the cable is connected to the DSL port on other OnSite and the DSL port is correctly configured.
3. When a DSL link is established, the front-panel *DSL* LED will turn on.

4.0 Connect the serial port

Your OnSite comes with one of the following serial WAN ports for connection to an CPE:

- RS-232 (DB-25F) — Model 3088A/A
- V.35 (DB-25F) — Model 3088A/CA
- X.21 (DB-15) — Model 3088A/D
- E1 (120-Ohm RJ-48C and dual 75-Ohm BNC connectors) — Model 3088A/K

Connect the serial cable to the OnSite serial port as follows:

1. Attach the male connector of the serial cable to the female serial connector on the OnSite.
2. Attach the other end of the cable to the serial connector on the local serial CPE.

Note You can connect the V.35 interface to an M/34 connector using Patton's Model 2-34F25M interface adapter.

Note You can configure the E1 interface to either recover the network clock from the E1 line or supply the network clock for the E1 line.

5.0 Additional information

For detailed information about installing, configuring, operating, and troubleshooting, refer to the *Model 3088A Series Getting Started Guide* at www.patton.com/manuals/3088A.pdf.

A.0 Compliance Information

A.1 Compliance

EMC:

- FCC Part 15, Class A
- EN55022, Class A
- EN55024

Safety:

- UL 60950-1/CSA C22.2 NO. 60950-1
- IEC/EN60950-1
- AS/NZS 60950-1

1.2 Radio and TV Interference (FCC Part 15)

This equipment generates and uses radio frequency energy, and if not installed and used properly—that is, in strict accordance with the manufacturer's instructions—may cause interference to radio and television reception. This equipment has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection from such interference in a commercial installation. However, there is no guarantee that interference will not occur in a particular installation. If the equipment causes interference to radio or television reception, which can be determined by disconnecting the cables, try to correct the interference by one or more of the following measures: moving the computing equipment away from the receiver, re-orienting the receiving antenna, and/or plugging the receiving equipment into a different AC outlet (such that the computing equipment and receiver are on different branches).

1.3 Industry Canada Notice

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

This Declaration of Conformity means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction. Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above condition may not prevent degradation of service in some situations. Repairs to some certified equipment should be made by an authorized maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure for their own protection that the ground connections of the power utility, telephone lines and internal metallic water pipe system, are connected together. This protection may be particularly important in rural areas.

A.4 EC Declaration of Conformity

(See section A.5 "EG-Konformitätserklärung" for German version.)

Product Description: OnSite 3088A Series

This equipment conforms to the requirements of Council Directive 1999/5/EC on the approximation of the laws of the member states relating to Radio and Telecommunication Terminal Equipment and the mutual recognition of their conformity.



The safety advice in the documentation accompanying the products shall be obeyed.
The conformity to the above directive is indicated by the CE sign on the device.

The signed Declaration of Conformity can be downloaded from www.patton.com/certifications/.

A.5 EG-Konformitätserklärung

(see section A.4 "EC Declaration of Conformity" for English version)

Produktbezeichnung: OnSite 3088A Sendereihe

Die bezeichneten Produkte stimmen in der von uns in Verkehr gebrachten Ausführung mit den Vorschriften folgender Richtlinie überein:

R&TTE 1999/5/EG

Richtlinie des europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Funkanlagen und Telekommunikations-Endeinrichtungen und die gegenseitige Anerkennung ihrer Konformität.



Die Sicherheitshinweise in der mitgelieferten Produktdokumentation sind zu beachten. Die Konformität mit der oben erwähnten Richtlinie wird durch das CE-Zeichen auf dem Gerät bestätigt.

Die unterzeichnete Konformitätserklärung kann heruntergeladen werden von: www.patton.com/certifications/.

A.6 Authorized European Representative

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European Compliance Services Limited.

Oakdene House, Oak Road

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Patton support headquarters in the USA

- Online support: Available at www.patton.com
- E-mail support: E-mail sent to support@patton.com will be answered within 1 business day
- Telephone support: Standard telephone support is available five days a week — from 8:00 am to 5:00 pm EST (1300 to 2200 UTC/GMT) — by calling +1 (301) 975-1007
- Support via VoIP: Contact Patton free of charge by using a VoIP ISP phone to call sip:support@patton.com
- Fax: +1 (253) 663-5693

Alternate Patton support for Europe, Middle East, and Africa (EMEA)

- Telephone support: Standard telephone support is available five days a week — from 8:00 am to 5:00 pm CET (0900 to 1800 UTC/GMT) — by calling +41 (0)31 985 25 55
- Fax: +41 (0)31 985 25 26

Note For additional service and support information, refer to the “Contacting Patton for assistance” chapter of the *OnSite 3088A Getting Started Guide* available online at www.patton.com/manuals/3088A.pdf.

Warranty, Trademark, & Compliance Information

For warranty, trademark and compliance information, refer to the *OnSite 3088A Getting Started Guide* available online at www.patton.com/manuals/3088A.pdf.